

The invention claimed is:

1. An electrode comprising a conductive material having a plurality of pores, said electrode having a pore size distribution wherein at least 90% of the total pore volume is in pores of diameter from about 10% below the size of the mode pore diameter to about 10% above the size of the mode pore diameter.
2. The electrode of claim 10, wherein said pore sizes are in the range of about 0.1  $\mu\text{m}$  to about 10 $\mu\text{m}$  as measured by scanning electron microscopy
3. The electrode of claim 10, wherein said pores are tapered having a first pore opening and a second pore opening, wherein said first pore opening is up to about a factor of 10 smaller in size than said second pore opening, wherein said pore openings are measured by scanning electron microscopy.
4. A fuel cell comprising at least one electrode comprising a conductive material having a plurality of pores, said electrode having a pore size distribution wherein at least 90% of the total pore volume is in pores of diameter from about 10% below the size of the mode pore diameter to about 10% above the size of the mode pore diameter.
5. The fuel cell of claim 13, wherein said pores are tapered having a first pore opening and a second pore opening, wherein said first pore opening is up to about a factor of 10 smaller in size than said second pore opening, wherein said pore openings are measured by scanning electron microscopy.
6. The fuel cell of claim 13, wherein the pore sizes are in the range of about 0.1  $\mu\text{m}$  to about 10 $\mu\text{m}$  as measured by scanning electron microscopy
7. A fuel cell stack comprising at least one fuel cell having at least one electrode comprising a conductive material having a plurality of pores, said electrode having a pore size distribution wherein at least 90% of the total pore volume is in pores of diameter

from about 10% below the size of the mode pore diameter to about 10% above the size of the mode pore diameter.

8. The fuel cell stack of claim 16, wherein said pores are tapered having a first pore opening and a second pore opening, wherein said first pore opening is up to about a factor of 10 smaller in size than said second pore opening, wherein said pore openings are measured by scanning electron microscopy.

9. The fuel cell stack of claim 16, wherein the pore sizes are in the range of about 0.1  $\mu\text{m}$  to about 10 $\mu\text{m}$  as measured by scanning electron microscopy